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What is claimed is:

- 1. An electrostatically driven optical membrane, comprising:
  - a support structure;
  - a membrane structure separated from the support structure by an electrostatic cavity; and
  - a tab on the membrane structure that increases a rigidity of the membrane structure to deflection after a predetermined amount of deflection.
- 2. An optical membrane as claimed in claim 1, wherein the tab comprises a cantilevered portion that engages the membrane structure after deflection.
- 3. An optical membrane as claimed in claim 1, wherein the membrane structure comprises a tether connecting a membrane body to an outer portion.
- 4. An optical membrane as claimed in claim 3, wherein a base of the tab is connected to the tether.
- 5. An optical membrane as claimed in claim 3, wherein a base of the tab is connected to the outer portion.
- 6. An optical membrane as claimed in claim 1, wherein a base of the tab is connected to the membrane structure.
- 7. An optical membrane as claimed in claim 1, wherein the tab extends radially on the membrane structure.
- 8. A method for fabricating an optical membrane, comprising: patterning a membrane structure; and

forming a tab on the membrane structure that comprises a base and a cantilevered portion and that reduces deflection of the membrane structure.

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- 9. A method as claimed in claim 8, further comprising forming an electrostatic cavity to enable controlled deflection of the membrane structure.
- 10. A method as claimed in claim 8, wherein the step of patterning the membrane structure comprises patterning a tether, which extends between a body and an outer portion of the membrane structure.
- 11. A method as claimed in claim 8, wherein the step of forming the tab comprises: depositing a masking layer over the a membrane layer; exposing regions of the membrane layer; and depositing a tab layer on the exposed portions of the membrane layer.
- 12. A method as claimed in claim 11, further comprising patterning the tab layer.
- 13. A method as claimed in claim 11, wherein the masking layer functions as a spacer layer determining a distance between a cantilevered portion of the tab and the membrane structure.
- 14. A method as claimed in claim 8, wherein the step of patterning the membrane structure comprises patterning a tether between a body and an outer portion of the membrane structure.